

Welcome to our 2023 Annual General Meeting



#CRCAGagm

- **f** crcactiongroup
- @crcactiongroup

Agenda

Topic/ Speaker	Speaker / Introductions by	Time (minutes)	Schedule
Welcome	Greg Johnson	5	6:30-6:35
CRCAG Co-Presidents' Report	Tony Morris	10	6:35-6:45
CRCAG Association Business	Tony Morris and Greg Johnson	10	6:45-6:55
Bow River Team Introductions	Tony Morris	10	6:55-7:05
 Charlie Lund, Hillhurst-Sunnyside Community Association Jean Woeller, Bowness Responsible Flood Mitigation Society 			
CRCAG Succession Planning	Tony Morris	10	7:05-7:15
 Board resignations New board members (vote): Charlie Lund & David Chalack 			
Words from elected representatives	Tony Morris	15	7:15-7:30
Introduction of Speaker Panel	Brenda Leeds Binder	5	7:30-7:35
Morna Hussey, Director, Watershed Resilience and Transboundary Waters, Alberta Environment & Protected Areas Bow River Reservoir Options project Bow and Elbow River Flood Study – Update (mapping)	Brenda Leeds Binder	10	7:35-7:45
Yvonne Carignan, Director, Water Management, Major Capital Projects Branch, Transportation and Economic Corridors • Progress of SR1 and how it will be managed in the future	Brenda Leeds Binder	10	7:45-7:55
Frank Frigo, Manager Environmental Management, Climate and Environment, Planning and Development Services, City of Calgary Status on local mitigation projects City's role in stewardship of upstream projects	Brenda Leeds Binder	10	7:55-8:05
Q&A Speaker Panel	Brenda Leeds Binder (moderator)	20	8:05-8:25
Wrap-up Comments	Brenda Leeds Binder	5	8:35-8:40

Your CRCAG team

Board of Directors

- Brenda Leeds Binder, Co-President
- Tony Morris, Co-President
- Anna Mravcak, Treasurer
- Emma May
- Steven Forrest
- Greg Johnson
- Simon Geoghegan

Committees

Regulatory Team

- Simon Geoghegan
- Rachel Kolber
- Lauren Bell

Bow River Team

- Charlie Lund
- Jean Woeller

As well as support from our Communications Director, Erin Fahey.



Co-President's Report

- Since our last (not so) Annual General Meeting in December 2020
- A look over the looooooooong past
- What's next?
- We're so fortunate and grateful

What We Do

- Inform
- Advocate
- Remember

Who is CRCAG?



Calgary River Communities Action Group was formed in the immediate aftermath of the Southern Alberta Floods disaster in 2013.

The **group of concerned citizens** advocates for the construction of flood mitigation infrastructure to protect Calgary against future flooding, and defends against policy, legislative and regulatory changes that are prejudicial to, and negatively impact, property owners in flood impacted communities.

CRCAG is...

- a society created under the Societies Act (Alberta)
- · a non-profit organization
- not a charity and charitable receipts cannot be issued for donations



Our mandate:



CRCAG will continue to advocate for construction of large-scale flood mitigation infrastructure to provide the City of Calgary protection for at minimum a 1 in 200 year scale flood event on the Elbow River.



CRCAG will continue to advocate for the Government of Alberta to immediately enter into a legal agreement with TransAlta Corporation to leverage existing infrastructure on the Bow River and its tributaries for flood mitigation purposes.



CRCAG will advocate for construction of additional flood mitigation infrastructure on the Bow River to ensure protection for at minimum a 1 in 200 year scale flood event.



CRCAG will participate in **legal and regulatory proceedings** as deemed necessary by the CRCAG Board in furtherance of advocating for particular flood mitigation infrastructure projects.



CRCAG will continue to advocate against policy, legislative and regulatory changes that are prejudicial to and negatively impact property owners in flood impacted communities.

We Must Not Forget

Lives Lost

Lorraine Gerlitz, 83, of Calgary
Jacqueline Brocklebank, 33, of High River
Amber Rancourt, 35, of Longview
Dominic Pearce, 52, of High River
Robert Nelson, 44, of Okotoks

Historical Flooding Reference





1879 & 1897 Flood Water



2013 Flood Water

Upstream Mitigation Progress Report

River	Studies	Proposals	Project Selection	Regulatory Approval	Cabinet Approval	Construction	Operational
Elbow	√	1	1	√	1	1	X
Bow	1	X	X	X	X	X	X

Provincial - SR1 Developments (Since Our Last AGM)

- As the final stage of the Environmental Impact Assessment that started March 2016, the Natural Resources Conservation Board 2 week hearing commenced in March 2021 and CRCAG panel presented on Day 2:
 - 33 page written Submission with 4 appendices
 - 218 letters and 393 survey responses
 - 21 page Closing Argument
- Submission: Lauren, Rachel and Simon
- Panel: Brenda, Tony and Paul
- Legal: Lou Cusano and Gino Bruno of Torys
- Fundraising: 2017 and onward with many contributors

Federal - SR1 Developments (Since Our Last AGM)

- Impact Assessment Agency of Canada (formerly CEAA)
 "office review" confirmed August 2017 with 4000+ page
 EIA submitted by AB Transportation November 2017
- June 2019 AB Transportation submits 8000+ page response to first round of 600+ questions from IAAC, NRCB and AB Environment and Parks. March 2020 second round of questions released and answered. February 2021 EIA process deemed complete
- CRCAG providing written submissions and prompts throughout

Approvals - SR1 Developments (Since Our Last AGM)

- NRCB announce SR1 APPROVAL on 8th Anniversary of the flood, June 2021
- Federal Minister of Environment and Climate Change announces SR1 APPROVAL in July 2021
- Alberta Cabinet announces SR1 APPROVAL in October 2021.
- SR1 construction commences May 2022

Bow River Developments (Since Our Last AGM)

- Bow River Reservoir Options project
 - Phase 1: Conceptual Assessment COMPLETE
 - Phase 2: Feasibility Study UNDERWAY AND EXPECTED SOON
 - Phase 3: Detailed Design and Engineering and Regulatory Approval
 - Phase 4: Construction
- 2034 timeline and multiple approvals
- Budget 2020 provided \$15M funding required for Phase 2
 Feasibility Study (over three years)
- 5 year extension of TransAlta Agreement confirmed May 2021

Local Mitigation Developments Since Our Last AGM

- Numerous Calgary local area mitigation structures and improvements completed (including the Glenmore Gates on the Elbow River completed in 2020)
- June 2022 Calgary declares flooding State of Emergency and berms built

CRCAG's Ongoing Bow River Work

- Bi-monthly calls and regular engagement with Environment and Protected Areas Ministry
- Participation in feedback and input sessions as a key stakeholder group

Flood Mapping Developments Since Our Last AGM

Inundation Maps

- Map multiple flood scenarios
- Assume flood mitigation structures like dams and reservoirs have no mitigating effect on the flood
- Used for emergency planning and to inform local infrastructure design
- Naturalized return periods (do not consider mitigation reducing likelihood of flood)

- Map 1:100 design flood (Alberta's minimum standard)
- Demarcate floodway and flood fringe
- Used for policy and regulation such as Provincial Floodway Development Regulation and Calgary's Land Use Bylaws

Flood Mapping Developments Since Our Last AGM

 It has always been our view that the right process for Hazard Maps should be:

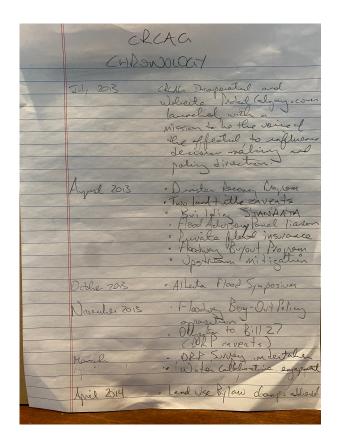
First: BUILD MITIGATION

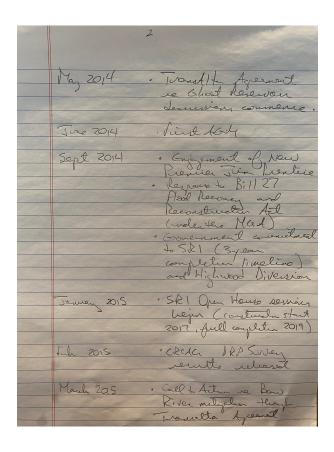
Then: MAP (including that mitigation)

Then: amend or create POLICY (using updated maps)

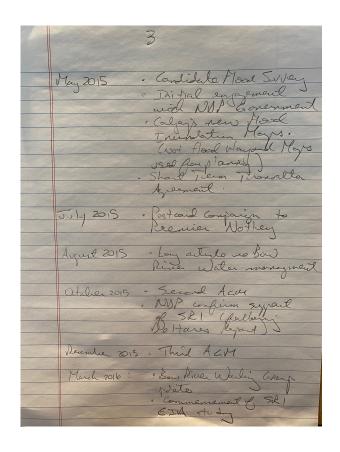
- We've advocated to have a seat at the table as policy is developed
- We do not want to be caught without policy consultations again (Floodway Buyout Program, Land Use Bylaw)
- We know that poor policy can undermine great mitigation.

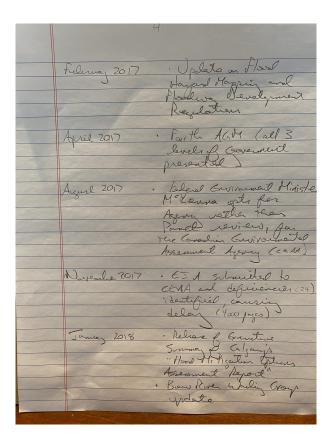
CRCAG's Look Back - 2013 to 2015





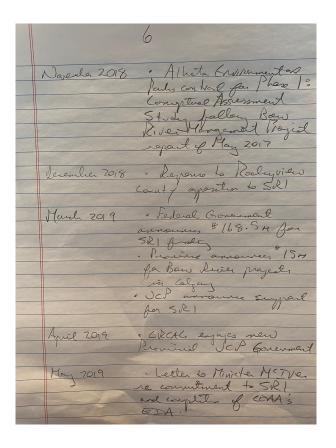
CRCAG's Look Back - 2015 to 2017





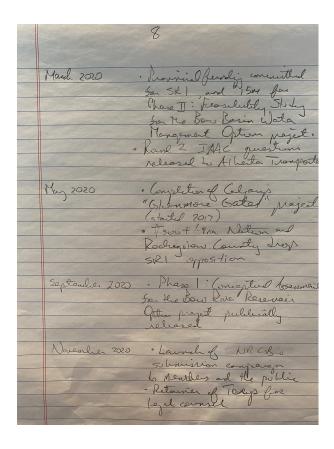
CRCAG's Look Back - 2018 to 2019

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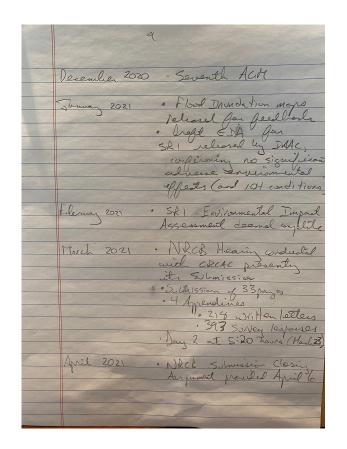


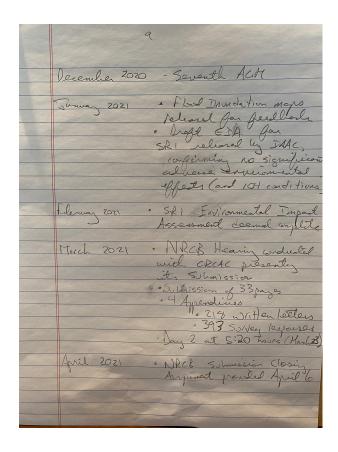
CRCAG's Look Back - 2019 to 2020

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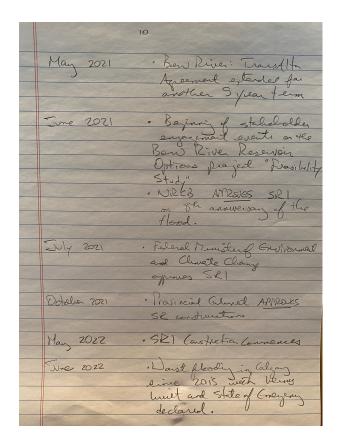


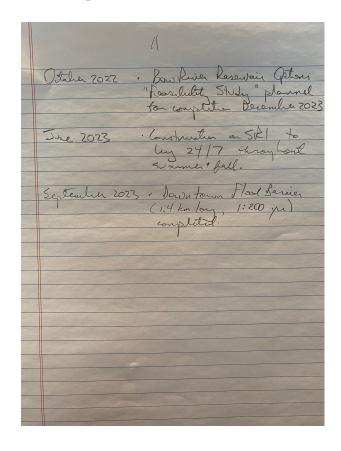
CRCAG's Look Back - 2020 to 2021





CRCAG's Look Back - 2021 to 2023





CRCAG's Look Back

- www.protectcalgary.com
- Building standards and caveat threat
- Disaster Recovery Program and private insurance
- Floodway Buyout Program
- Bill 27 "Flood Recovery and Reconstruction Act" and Floodway Development Regulation
- Floodway Land Use Bylaw changes
- TransAlta Agreement changes
- Key risk: Government changes (3 different political ideologies and 6 Premiers)
- Core objective: Keeping water out of Calgary through upstream mitigation on both rivers.

So Many People to Thank (with apologies to those not mentioned)

- The VOLUNTEERS who saved us!
- The original CRCAG Board: Emma, Tony, Helen Wesley, Wade Felesky, Dr. Mike Bregazzi
- Other Board members: David Carlson, Daryl Rudichuk, Gloria Mak, Rob Motherwell, Rob Nieuwesteeg; and helpers June Kilcolm, Josh Traptow
- Our 6 (!) Premiers: Redford, Hancock, Prentice, Notley, Kenney,
 Smith, and their respective governments
- Our MPs including Joan Crockatt and Greg McLean, and the Federal government

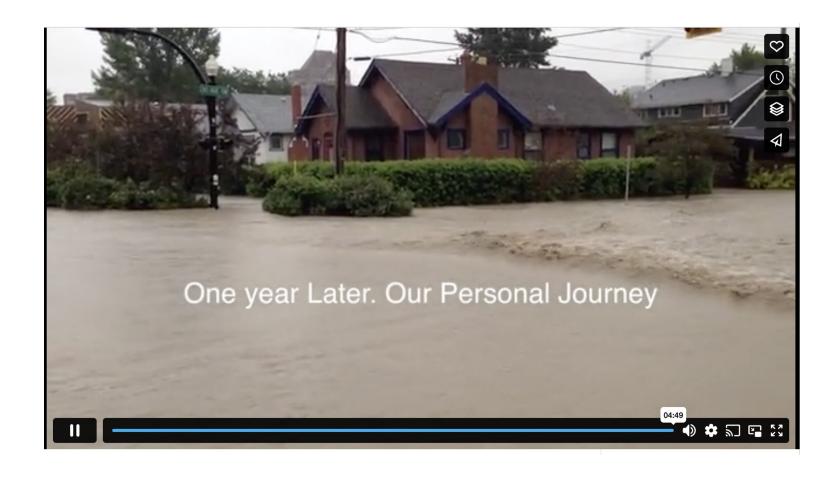
So Many People to Thank (with apologies to those not mentioned)

- Mayors Naheed Nenshi and Jyoti Gondek and City Council
- Key MLAs: Greg Clark, Doug Schweitzer, Brian Mason, Rick McIvor, Ken Hughes
- Key Provincial officials: Andre Corbould, John Conrad, Andrew Wilson, Mark Comerford, Mark Svenson, Rick Blackwood, Landon Reppert, Crystal Damer, Yvonne Carignan and Matt Hebert (and many more...)
- Calgary Water Services: Frank Frigo, Sandy Davis, Carolyn Bowen
- Your neighbours: Allan Markin, Steve Allan, Wolf Keller, Ken Kress, Roger Drury, and manu fundraisers and contributors.

So Many People to Thank (with apologies to those not mentioned)

- Flood Free Calgary: Paul Battistella, Geoff Granville, Scott Laird, Paul Fisher
- Regulatory Subcommittee: Simon, Rachel, Lauren
- Bow River Subcommittee: Charlie, Jean
- The amazing Erin Fahey, Communications Director
- OUR INCREDIBLE BOARD: Brenda, Emma, Anna, Greg, David, Steve, Simon, Tony

AND TO YOU, OUR MEMBERS, WITHOUT WHOM CRCAG IS HOLLOW, THANK YOU FOR TEN YEARS OF TIRELESS SUPPORT



Association Business – Financial Report

CRCAG Financial Report for January 1, 2020 to October 21, 2023

Legal Status

CRCAG:

- is a society created under the *Societies Act* (Alberta)
- is a non-profit organization
- is not a charity and charitable receipts cannot be issued for donations

Association Business – Financial Report 2020-2023

Donations & Expenses

Donations (income) & Expenses for Jan – Dec 2020		Jan –Dec 2021	Jan – Dec 2022	Jan – Oct 2023
Donations (interest income) Total:	\$5,542	\$54,160	\$0	\$0
Expenses:				
Communication	\$11,546	\$15,060	\$2,277	\$0
Liability insurance	\$2,327	\$2,679	\$2,961	\$0
Legal fees	\$509	\$155,581	\$357	\$5,617
Meeting expenses	\$0	\$0	\$0	\$1,000
Bank fees	<u>\$150</u>	<u>\$170</u>	<u>\$170</u>	<u>\$76</u>
Total Expenses:	\$14,532	\$173,490	\$5,765	\$6,693
Excess/(deficiency) of Donations over Expenses	<u>\$(8,991)</u>	(\$119,330)	<u>\$(5,765)</u>	(\$6,693)

Association Business – Financial Report 2020-2023

Balance Sheet

CRCAG Balance Sheet	As of November 30, 2020 (Last AGM)	As of December 31, 2020	As of December 31, 2021	As of December 31, 2022	As of October 31, 2023
Assets (unrestricted cash and undeposited cheques)	\$207,867	\$206,719	\$87,390	\$81,625	\$74,932
Liabilities	\$-	\$-	\$-	\$-	\$-
Net Assets (assets minus liabilities)	\$207,867	\$206,719	\$87,390	\$81,625	\$74,932

Association Business – Financial Report 2020-2023

<u>Donations & Expenses – Budget for 2024</u>

Donations (income) & Expenses for	Nov 2023 – Dec 2024
Donations (interest income) Total:	\$0
Expenses:	
Communication	\$2,500
Liability insurance	\$3,000
Legal and professional fees	\$5,000
Tax penalties and interest (CRA voluntary disclosure)	\$20,000 (contingent)
Meeting expenses	\$2,000
Bank fees	<u>\$170</u>
Total Expenses:	\$32,750
Excess/(deficiency) of Donations over Expenses	(32,670)
Opening Cash – November 1, 2023	\$74,932
Budgeted Cash – December 31, 2024	42,262

Association Business – Resolutions

Minutes from December 15, 2020 annual general meeting

1.The minutes from the annual general meeting held on December 15, 2020 are hereby approved without any further action or reading.

Association Business – Resolutions

<u>Financial Statements and Budget</u>

1. The following financial statements for the periods are hereby approved.

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January 1, 2020 to December 31, 2020
January 1, 2021 to December 31, 2021
January 1, 2022 to December 31, 2022
January 1, 2023 to October 31, 2023
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2. The Budget for the period November 1, 2020 to December 31, 2024 covered herein is hereby approved.

Association Business – Committee Members

Bow Team Introductions

Charlie Lund, Hillhurst-Sunnyside Community Association

Jean Woeller, Bowness Responsible Flood Mitigation Society

Association Business – Committee Members



Charlie Lund, Flood Committee Chair

Association Business – Committee Members



Association Business – Board of Directors/Resolutions

CRCAG Succession Planning

- Resignations David Carlson
- New Board Members Vote
 - Charlie Lund
 - David Chalack



Association Business – Board of Directors/Resolutions

- New Board Members Vote
 - Charlie Lund
 - David Chalack
- Call for additional board members

Approval of board

1. The Board of Directors is hereby approved.

Association Business – Resolutions

Adjournment of the formal part of AGM

1. The annual general meeting is hereby adjourned.

Words from Elected Representatives

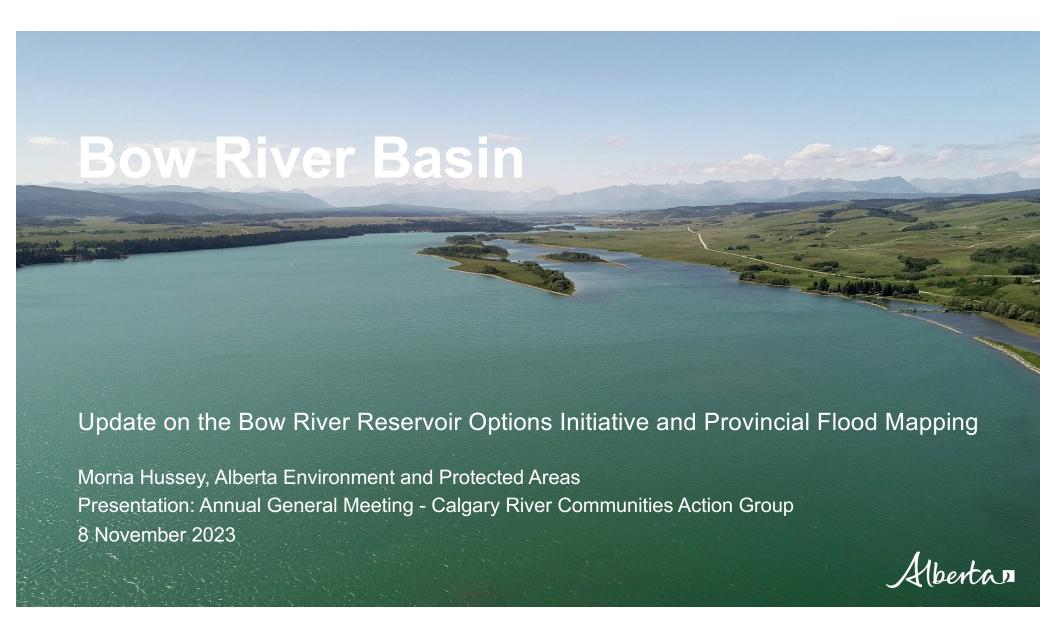
- Mayor Jyoti Gondek
- Minister Rebecca Schulz, Environment and Protected Areas of Alberta (video)





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CRCAG Succession Planning Board resignations New board members (vote): Charlie Lund & David Chalack	Tony Morris	10	7:05-7:15
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Introduction of Speaker Panel	Brenda Leeds Binder	5	7:30-7:35
Morna Hussey, Director, Watershed Resilience and Transboundary Waters, Alberta Environment & Protected Areas Bow River Reservoir Options project Bow and Elbow River Flood Study – Update (mapping)	Brenda Leeds Binder	10	7:35-7:45
Yvonne Carignan, Director, Water Management, Major Capital Projects Branch, Transportation and Economic Corridors • Progress of SR1 and how it will be managed in the future	Brenda Leeds Binder	10	7:45-7:55
Frank Frigo, Manager Environmental Management, Climate and Environment, Planning and Development Services, City of Calgary Status on local mitigation projects City's role in stewardship of upstream projects	Brenda Leeds Binder	10	7:55-8:05
	Brenda Leeds	20	8:05-8:25
Q&A Speaker Panel	Binder (moderator)		



Agenda







Bow River Reservoir Options (BRRO)

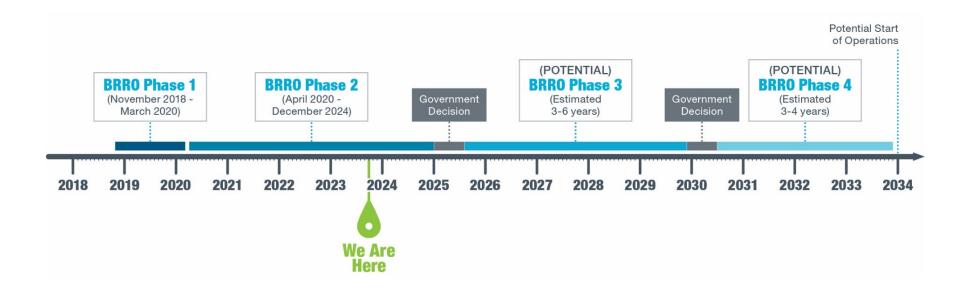


The Start

- Announcement of the Bow River Water Management Project (2015) to assess the potential flood and drought mitigation within the Bow River basin.
 - Jointly chaired by Alberta Environmental and Protected Areas and the City of Calgary, work carried out by the Bow River Working Group (BRWG)
- Recommendation (2017) to complete conceptual assessments to determine which to advance to feasibility study was accepted
 - 3 major infrastructure schemes: New Glenbow reservoir, New Morley reservoir, Expand Ghost reservoir
- Bow River Reservoir Options initiative (2018) starts

Albertan

Timeline



Albertan

BRRO Winnowing Process

15 Schemes to 3 Schemes

Bow River Working Group Schemes

One in each stretch of the Bow river, upstream of Calgary

10 sites to 3 **Options**

Phase 1: Conceptual Assessment

Evaluated 10 sites, resulting in: the Morley option, Relocated Ghost Dam option, and Glenbow East option

Where we are now

3 Options to 1 Option

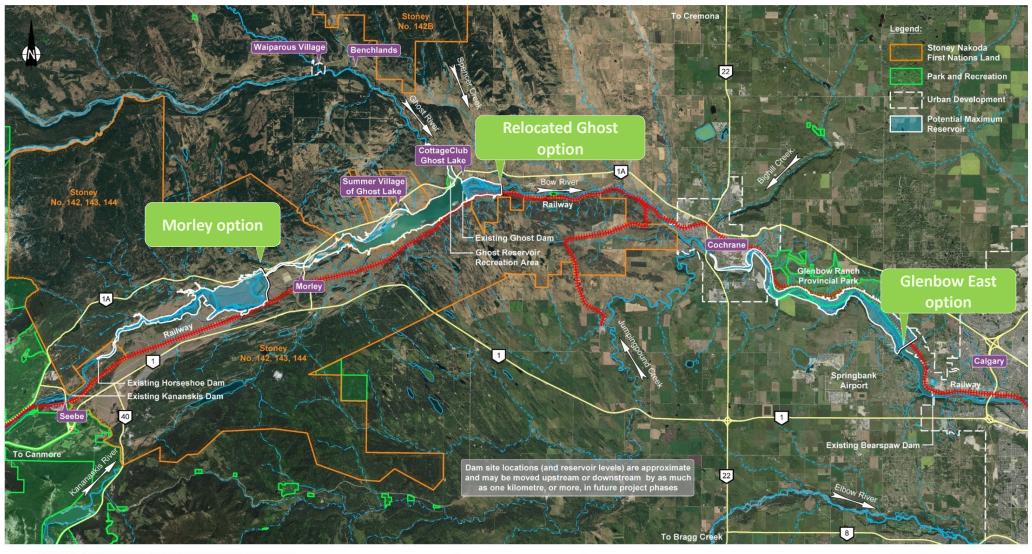
Phase 2: Feasibility Study

Option

Option

Phase 3: Engineering & Regulatory Approval Process

Phase 4: Construction & Project Management Albertan



BOW BASIN WATER MANAGEMENT OPTIONS CONCEPTUAL ASSESSMENT - SEPTEMBER 6, 2019

wood.

Alberta

MAP ILLUSTRATING RESERVOIR OPTIONS

Progress Since the last AGM

- Field studies for Glenbow East and Relocated Ghost Dam are complete
- Public, Stakeholder and Indigenous Engagement
- Technical and engagement reports underway
- Established 3rd Party Review Team



Ongoing Work

- Drilling program and field work for the Morley option
- Engagement and communication
- Option optimization
- Exploration of alternatives
- Risk and cost analysis

Report as Final Deliverable

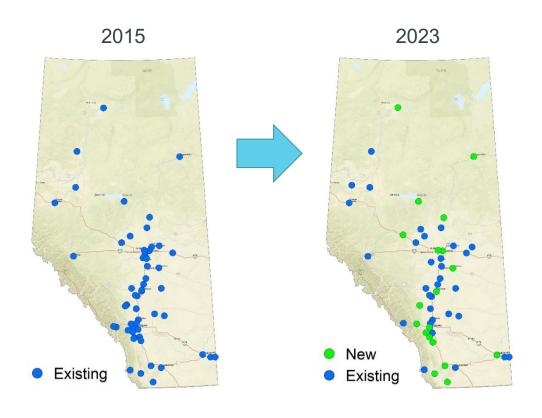
- Technical feasibility
- Risk assessment
- Cost analysis

Albertan

Flood Mapping Update



Flood mapping in Alberta

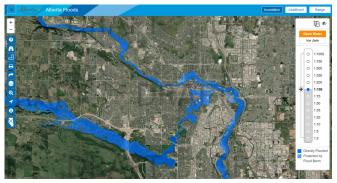


- 60+ flood studies in 2015
 - 1,200 km of final mapping
- **27 new studies** by 2023
 - 65+ local authorities, including
 5 First Nations for the first time
 - 600 km of updated maps
 - 1000 km of maps in areas never mapped before
 - Including the new Bow and Elbow River Flood Study though Calgary
- 11 new studies underway



Calgary flood mapping



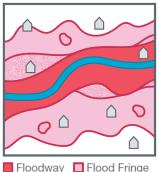


Bow and Elbow River Flood Study

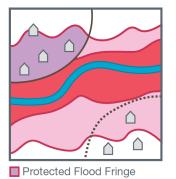
- Local authority review is complete
- Public engagement Inundation maps
 - Completed in 2021 Thank you
 - Revisions made based on feedback received, including showing protection from new flood berms in Calgary
- Final engagement Hazard maps
 - Planning final round of public engagement on draft flood hazard maps later this year



Flood hazard maps



■ Floodway■ Flood Fringe■ High Hazard Flood Fringe



Flood hazard maps support local planning

- Divides the 1:100 design flood hazard area into floodway and flood fringe zones
- Implements Alberta's new approach to updating floodways and mapping flood hazard areas
 - The floodway in Calgary has <u>not</u> been made larger in almost all areas to support regulatory certainty for homeowners
 - New protected flood fringe and high hazard flood fringe sub-zones show protection from flood berms and support flexible local flood risk management outside the floodway



Future flood mitigation

- Working with the City of Calgary so maps can be updated quickly when new flood berms are completed in the future
 - Ready to revise maps when Sunnyside Barrier upgrades are complete
- Working with dam operators so maps can be revised when Springbank Off-stream Reservoir is fully operational
 - Joint operating procedures for the Springbank-Glenmore system will establish the level of Elbow River flow regulation for all flood scenarios
 - Flood areas in Calgary will be revised to reflect lower regulated flows
- Similar approach will be considered for any new infrastructure that may be built on the Bow River in the future



Thank you



Albertan

Springbank Off-stream Reservoir Construction Update

CRCAG AGM

Yvonne Carignan, Director, Water Management November 8, 2023







- Received regulatory approval from NRCB and IAAC in 2021.
- Further construction approvals obtained in 2021 and 2022 under the Fisheries Act, Canadian Navigable Waters Act, Water Act, Public Lands Act, Historical Resources Act

 Construction contract awarded to Vinci Infrastructure Canada in February 2022 and construction began in early 2022























2023 Flood Resilience Update CRCAG AGM 8 Nov 2023

Frank Frigo, P.Eng. Manager, Environmental Management

ISC: Unrestricted



10 Years Since the 2013 Flood





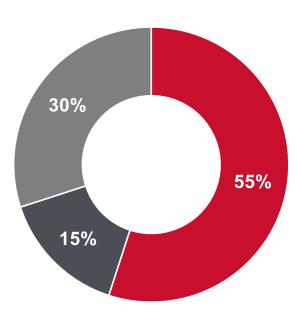
Calgary's Flood Resilience Plan



ISC: Unrestricted



55% Flood Risk Mitigated So far

















70% Flood Risk Mitigated by 2025

Springbank Reservoir - SR1 (Government of Alberta)

Prevent overland flooding on Elbow River in a 2013 level flood

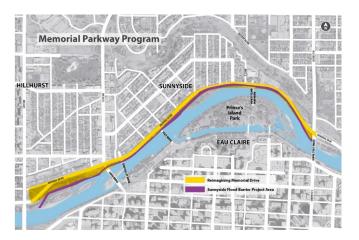
Estimated completion: 2025



Sunnyside flood barrier (City's Memorial Parkway Program)

Community engagement guiding design

Estimated completion: 2025





2024 Flood Season Preparation

Calgarians benefit from protection put in place

- Elbow: Glenmore Dam (mitigates overland flooding up to 1:35 event)
- Bow: GoA-TA agreement for Ghost Reservoir (helps mitigate overland flooding up to a 1:20 event), completed flood barriers

Annual City flood preparedness

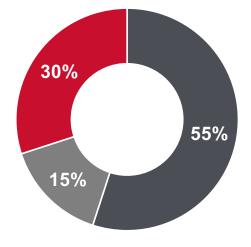
- City preparing flood response plans, similar to 2023, including:
 - · Temporary barriers where feasible
 - Stormwater pumping
 - Evacuation
- Public awareness and preparedness campaign will continue



Work Still to be Done

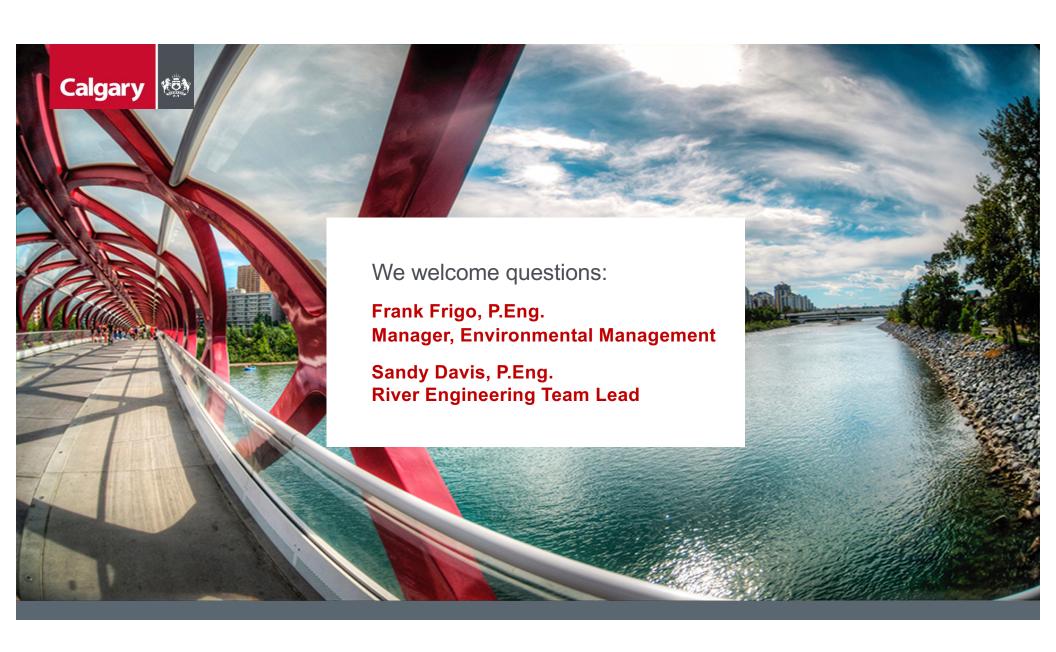
New reservoir on the Bow River

- Critical for flood, drought and climate resilience
- Looking towards 2024 provincial decision



River valley land use policy and regulation update

- Tied to Provincial release of updated flood hazard map & new zones
- Regulation will reflect updated risk
- Calgary River Valleys Project Public engagement on regulatory direction in flood hazard zones – Early 2024
- In the meantime Land Use Bylaw applies, but reasonable relaxations considered to ensure updated risk context is taken into account





Calgary 🔯 Q&A Speaker Panel



Yvonne Carignan, Director, Water Management, Major Capital Projects Branch, Transportation and **Economic Corridors**



Morna Hussey, Director, Watershed Resilience and Transboundary Waters, Alberta Environment & Protected Areas



Peter Onyshko, Flood Hazard Specialist, Alberta **Environment & Protected Areas**



Frank Frigo, Manager Environmental Management, Climate and Environment, Planning and Development Services, City of Calgary

